

SEQUENCE LISTING

<110> Koide, Shohei

<120> ARTIFICIAL ANTIBODY POLYPEPTIDES

<130> 109.050US1

<150> US 60/217,474

<151> 2000-07-11

<160> 121

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 14

<212> PRT

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<223> Anti-hen egg lysozyme (HEL) antibody.

<400> 1

Ala Arg Glu Arg Asp Tyr Arg Leu Asp Tyr Trp Gly Gln Gly
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<211> 17

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<223> An anti-HEL single VH domain termed VH8.

<400> 2

Ala Arg Gly Ala Val Val Ser Tyr Tyr Ala Met Asp Tyr Trp Gly Gln
1 5 10 15
Gly

<210> 3

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<213> Homo sapiens

<400> 3

Tyr Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile
1 5 10 15

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<223> Mutant D1.3-1.

<400> 4

096034-0710

Tyr Ala Glu Arg Asp Tyr Arg Leu Asp Tyr Pro Ile
1 5 10

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<400> 5
Tyr Ala Val Arg Asp Tyr Arg Leu Asp Tyr Pro Ile
1 5 10

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<400> 6
Tyr Ala Val Arg Asp Tyr Arg Leu Asp Tyr Ala Ser Ser Lys Pro Ile
1 5 10 15

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<400> 7
Tyr Ala Val Arg Asp Tyr Arg Leu Asp Tyr Lys Pro Ile
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<400> 8
Tyr Ala Val Arg Asp Tyr Arg Ser Lys Pro Ile
1 5 10

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<400> 10
Tyr Ala Val Thr Glu Arg Asp Tyr Arg Leu Ser Ser Lys Pro Ile
1 5 10 15

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<400> 11
Tyr Ala Val Ala Val Val Ser Tyr Tyr Ala Met Asp Tyr Pro Ile
1 5 10 15

<210> 12
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<220>
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<400> 12
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1 5 10 15

<210> 13
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<400> 13
cgggatccca tatgcaggtt tctgatgttc cgcgtgacct ggaagttggt gctgcgacc 59

<210> 14
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<220>
<223> Oligonucleotide FN1R.

<400> 14
taactgcagg agcatcccag ctgatcagca ggctagtcgg ggtcgcagca acaac 55

<210> 15
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<220>
<223> Oligonucleotide FN2F.

<400> 15
ctcctgcagt taccgtgcgt tattaccgta tcacgtacgg tgaaaccggg g 51

<210> 16
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<400> 16
gtgaattcct gaaccgggga gttaccaccg gtttcaccg 39

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<400> 17
aggaattcac tgtacctggt tccaagtcta ctgctaccat cagcgg 46

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<400> 18
gtatagtcga caccgggttt caggccgctg atggtagc 38

<210> 19
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<400> 19
cgggtgtcga ctataccatc actgtatacg ct 32

<210> 20
<211> 55
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<220>
<223> Oligonucleotide FN4R.

<400> 20
cgggatccga gctcgctggg ctgtcaccac ggccagtaac agcgtatata gtgat 55

<210> 21
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<400> 21
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<210> 22
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<220>
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<400> 22
cgggatccctc gagttactag gtacggtagt taatcga 37

<210> 23
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cgggatccac gcgtgccacc ggtacggtag ttaatcga 38

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<400> 25

ccggaagctt taagactcct tattacgcag tatgttagc

39

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<223> Oligonucleotide 38TAABgIII.

<400> 26

ctgttactgg ccgtgagatc taaccagcga gctcca

36

<210> 27

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<223> Oligonucleotide BC3.

<221> misc_feature

<222> (1)...(51)

<223> n = A,T,C or G

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gatcagctgg gatgctcctn nknknknkn knnktattac cgtatcacgt a

51

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<211> 57

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<223> Oligonucleotide FG2.

<221> misc_feature

<222> (1)...(57)

<223> n = A,T,C or G

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tgtatacgct gttactggcn nknknknkn knnknknknk tccaagccaa tctcgat

57

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<211> 47

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<223> Oligonucleotide FG3.

<221> misc_feature

<222> (1)...(47)
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ctgtatagcg tggtactggc nnknnknnkn nkccagcgag ctccaag

47

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<221> misc_feature
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catcactgta tacgctgtta ctnnknnknn knnknnktcc aagccaatct c

51

<210> 31
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monobody clone 211.

<400> 31
Cys Ala Arg Arg Ala
1 5

<210> 32
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<220>
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monobody clone 211.

<400> 32
Arg Trp Ile Pro Leu Ala Lys
1 5

<210> 33
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<220>
<223> The sequence of the BC loop of ubiquitin-binding
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<400> 33
Cys Trp Arg Arg Ala

1 5

<210> 34
<211> 7
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<220>

<223> The sequence of the FG loop of ubiquitin-binding
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<400> 34
Arg Trp Val Gly Leu Ala Trp
1 5

<210> 35
<211> 5
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<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 213.

<400> 35
Cys Lys His Arg Arg
1 5

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monobody clone 213.

<400> 36
Phe Ala Asp Leu Trp Trp Arg
1 5

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<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 214.

<400> 37
Cys Arg Arg Gly Arg
1 5

<210> 38
<211> 7
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<220>
<223> The sequence of the FG loop of ubiquitin-binding
monobody clone 214.

<400> 38
Arg Gly Phe Met Trp Leu Ser
1 5

<210> 39
<211> 5
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<220>
<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 215.

<400> 39
Cys Asn Trp Arg Arg
1 5

<210> 40
<211> 7
<212> PRT
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<220>
<223> The sequence of the FG loop of ubiquitin-binding
monobody clone 215.

<400> 40
Arg Ala Tyr Arg Tyr Arg Trp
1 5

<210> 41
<211> 5
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<220>
<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 411.

<400> 41
Ser Arg Leu Arg Arg
1 5

<210> 42
<211> 5
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<220>
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monobody clone 411.

<400> 42
Pro Pro Trp Arg Val

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09003413-074104

1 5

<210> 43
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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<400> 43
Ala Arg Trp Thr Leu
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<210> 44
<211> 5
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<220>
<223> The sequence of the FG loop of ubiquitin-binding
monobody clone 422.

<400> 44
Arg Arg Trp Trp Trp
1 5

<210> 45
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> The sequence of the BC loop of ubiquitin-binding
monobody clone 424.

<400> 45
Gly Gln Arg Thr Phe
1 5

<210> 46
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> The sequence of the FG loop of ubiquitin-binding
monobody clone 424.

<400> 46
Arg Arg Trp Trp Ala
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<210> 47
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<220>
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 Ala Val Thr Val Arg
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 <211> 7
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 <223> The sequence of the FG loop of WT from library #2.
 <400> 48
 Arg Gly Asp Ser Pro Ala Ser
 1 5
 <210> 49
 <211> 5
 <212> PRT
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<220>
 <223> The sequence of the BC loop of clone pLB24.1.
 <400> 49
 Cys Asn Trp Arg Arg
 1 5
 <210> 50
 <211> 7
 <212> PRT
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<220>
 <223> The sequence of the FG loop of clone pLB24.1.
 <400> 50
 Arg Ala Tyr Arg Tyr Arg Trp
 1 5
 <210> 51
 <211> 5
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<220>
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 <400> 51
 Cys Met Trp Arg Ala
 1 5
 <210> 52
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<223> The sequence of the FG loop of clone pLB24.2.

<400> 52

Arg Trp Gly Met Leu Arg Arg

1 5

<210> 53

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB24.3.

<400> 53

Ala Arg Met Arg Glu

1 5

<210> 54

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB24.3.

<400> 54

Arg Trp Leu Arg Gly Arg Tyr

1 5

<210> 55

<211> 5

<212> PRT

<213> QArtificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB24.4.

<400> 55

Cys Ala Arg Arg Arg

1 5

<210> 56

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB24.4.

<400> 56

Arg Arg Ala Gly Trp Gly Trp

1 5

<210> 57

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<211> 5
 <212> PRT
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 <220>
 <223> The sequence of the BC loop of clone pLB24.5.

 <400> 57
 Cys Asn Trp Arg Arg
 1 5

 <210> 58
 <211> 7
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> The sequence of the FG loop of clone pLB24.5.

 <400> 58
 Arg Ala Tyr Arg Tyr Arg Trp
 1 5

 <210> 59
 <211> 5
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> The sequence of the BC loop of clone pLB24.6.

 <400> 59
 Arg Trp Arg Glu Arg
 1 5

 <210> 60
 <211> 7
 <212> PRT
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 <220>
 <223> The sequence of the FG loop of clone pLB24.6.

 <400> 60
 Arg His Pro Trp Thr Glu Arg
 1 5

 <210> 61
 <211> 5
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 <223> The sequence of the BC loop of clone pLB24.7.

 <400> 61
 Cys Asn Trp Arg Arg
 1 5

09003412 074101

<210> 62
<211> 7
<212> PRT
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<220>
<223> The sequence of the FG loop of clone pLB24.7.

<400> 62
Arg Ala Tyr Arg Tyr Arg Trp
1 5

<210> 63
<211> 5
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<220>
<223> The sequence of the BC loop of clone pLB24.8.

<400> 63
Glu Arg Arg Val Pro
1 5

<210> 64
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> The sequence of the FG loop of clone pLB24.8.

<400> 64
Arg Leu Leu Leu Trp Gln Arg
1 5

<210> 65
<211> 5
<212> PRT
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<220>
<223> The sequence of the BC loop of clone pLB24.9.

<400> 65
Gly Arg Gly Ala Gly
1 5

<210> 66
<211> 7
<212> PRT
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<220>
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<400> 66
Phe Gly Ser Phe Glu Arg Arg

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<400> 71
Ala Val Thr Val Arg
1 5

<210> 72
<211> 5
<212> PRT
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<220>
<223> The sequence of the FG loop of WT from library #4.

<400> 72
Gly Arg Gly Asp Ser
1 5

<210> 73
<211> 5
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<220>
<223> The sequence of the BC loop of clone pLB25.1.

<400> 73
Gly Gln Arg Thr Phe
1 5

<210> 74
<211> 5
<212> PRT
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<220>
<223> The sequence of the FG loop of clone pLB25.1.

<400> 74
Arg Arg Trp Trp Ala
1 5

<210> 75
<211> 5
<212> PRT
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<220>
<223> The sequence of the BC loop of clone pLB25.2.

<400> 75
Gly Gln Arg Thr Phe
1 5

<210> 76
<211> 5
<212> PRT
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<220>

<223> The sequence of the FG loop of clone pLB25.2.

<400> 76

Arg Arg Trp Trp Ala

1 5

<210> 77

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB25.3.

<400> 77

Gly Gln Arg Thr Phe

1 5

<210> 78

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.3.

<400> 78

Arg Arg Trp Trp Ala

1 5

<210> 79

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB25.4.

<400> 79

Leu Arg Tyr Arg Ser

1 5

<210> 80

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.4.

<400> 80

Gly Trp Arg Trp Arg

1 5

<210> 81

<211> 5

<212> PRT

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 <223> The sequence of the BC loop of clone pLB25.5.

 <400> 81
 Gly Gln Arg Thr Phe
 1 5

 <210> 82
 <211> 5
 <212> PRT
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 <223> The sequence of the FG loop of clone pLB25.5.

 <400> 82
 Arg Arg Trp Trp Ala
 1 5

 <210> 83
 <211> 5
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 <220>
 <223> The sequence of the BC loop of clone pLB25.6.

 <400> 83
 Gly Gln Arg Thr Phe
 1 5

 <210> 84
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 <220>
 <223> The sequence of the FG loop of clone pLB25.6.

 <400> 84
 Arg Arg Trp Trp Ala
 1 5

 <210> 85
 <211> 5
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 <220>
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 <400> 85
 Leu Arg Tyr Arg Ser
 1 5

 <210> 86
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09003412.071101

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.7.

<400> 86

Gly Trp Arg Trp Arg

1 5

<210> 87

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone pLB25.9.

<400> 87

Leu Arg Tyr Arg Ser

1 5

<210> 88

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> The sequence of the FG loop of clone pLB25.9.

<400> 88

Gly Trp Arg Trp Arg

1 5

<210> 89

<211> 5

<212> PRT

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<223> The sequence of the BC loop of clone pLB25.11.

<400> 89

Gly Gln Arg Thr Phe

1 5

<210> 90

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone pLB25.11.

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Arg Arg Trp Trp Ala

1 5

<210> 91

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<211> 5
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<220>
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 Leu Arg Tyr Arg Ser
 1 5

<210> 92
 <211> 5
 <212> PRT
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<220>
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<400> 92
 Gly Trp Arg Trp Arg
 1 5

<210> 93
 <211> 15
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<220>
 <223> The sequence of the BC loop of WT from Table 7.

<400> 93
 gcagttaccg tgcgt

15

<210> 94
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<220>
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<400> 94
 Ala Val Thr Val Arg
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<210> 95
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<220>
 <223> The sequence of the FG loop of WT from Table 7.

<400> 95
 ggccgtggtg acagcccagc gagg

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<210> 96

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<223> The sequence of the FG loop of WT from Table 7.

<400> 96

Gly Arg Gly Asp Ser Pro Ala Ser
1 5

<210> 97

<211> 15

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<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone 1 from Table 7.

<400> 97

tcgaggttgc ggcgg

15

<210> 98

<211> 5

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<213> Artificial Sequence

<220>

<223> The sequence of the BC loop of clone 1 from Table 7.

<400> 98

Ser Arg Leu Arg Arg
1 5

<210> 99

<211> 15

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<220>

<223> The sequence of the FG loop of clone 1 from Table 7.

<400> 99

ccgccgtgga ggggtg

15

<210> 100

<211> 5

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<220>

<223> The sequence of the FG loop of clone 1 from Table 7.

<400> 100

Pro Pro Trp Arg Val
1 5

<210> 101
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<220>
<223> The sequence of the BC loop of clone 2 from Table
7.

<400> 101
ggtcagcgaa ctttt

15

<210> 102
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<220>
<223> The sequence of the BC loop of clone 2 from Table
7.

<400> 102
Gly Gln Arg Thr Phe
1 5

<210> 103
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<220>
<223> The sequence of the FG loop of clone 2 from Table
7.

<400> 103
aggcgggtggt gggct

15

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7.

<400> 104
Arg Arg Trp Trp Ala
1 5

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<220>

<223> The sequence of the BC loop of clone 3 from Table 7.

<400> 105

gcgaggtgga cgctt

15

<210> 106

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> The sequence of the BC loop of clone 3 from Table 7.

<400> 106

Ala Arg Trp Thr Leu

1

5

<210> 107

<211> 15

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<213> Artificial Sequence

<220>

<223> The sequence of the FG loop of clone 3 from Table 7.

<400> 107

aggcggtggt ggtgg

15

<210> 108

<211> 5

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<213> Artificial Sequence

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<223> The sequence of the FG loop of clone 3 from Table 7.

<400> 108

Arg Arg Trp Trp Trp

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5

<210> 109

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> A solubility tail.

<400> 109

Gly Lys Lys Gly Lys

1

5

<210> 110

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<212> DNA

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<400> 111

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<211> 96

<212> PRT

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$\langle 400 \rangle$ 112

24

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<211> 20

<213> Artificial Sequence

<223> A fusion protein.

Met Gly Ser Ser His His His His His His Ser Ser Gly Leu Val Pro
1 5 10 15

Arg Gly Ser His
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<211> 10

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<223> A sequence from clone Plb25.1.

Gly Gln Arg Thr Phe Arg Arg Trp Trp Ala
1 5 10

<211> 10

<213> Artificial Sequence

<223> A sequence from clone Plb25.4.

Leu Arg Tyr Arg Ser Gly Trp Arg Trp Arg
1 5 10

<211> 12

<213> Artificial Sequence

<223> A sequence from clone pLB24.1.

Cys Asn Trp Arg Arg Arg Ala Tyr Arg Tyr Trp Arg
1 5 10

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> A sequence from clone pLB24.3.

<400> 118

Ala Arg Met Arg Glu Arg Trp Leu Arg Gly Arg Tyr
1 5 10

<210> 119

<211> 4

<212> PRT

<213> Homo sapiens

<400> 119

Glu Ile Asp Lys
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<210> 120

<211> 4

<212> PRT

<213> Unknown

<220>

<223> Anti-hen egg lysozyme (HEL) antibody.

<400> 120

Arg Asp Tyr Arg
1

<210> 121

<211> 96

<212> PRT

<213> Homo sapiens

<400> 121

Met Gln Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr
1 5 10 15
Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg
20 25 30
Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln
35 40 45
Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60
Lys Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg
65 70 75 80
Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

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